

base of the right ocellar prominence of the chrysalis, the left ocellar prominence being greatly aborted and entering the heart of the left cephalic hemisphere; the right hemisphere is nothing but a pellicle, connected only with the opposite half, but the left seems to be closely soldered to the insect, although the edges are free almost or quite throughout; in addition, the pellicle and hardened dorsal shield of the first segment of the larva are present, directly behind the left hemisphere; the frontal triangle and all the mouth parts of the larval head remain naturally attached to the left hemisphere; there is nothing else peculiar to the creature excepting its total lack of maxillary and antennal cases, the empty trough for the reception of the former being particularly conspicuous, while that of the latter is closed on the distal half, or, on the right side, even more than that. This makes it all the more probable that the larval head has still an organic connection with the insect. The chrysalis was raised in confinement.

Samuel H. Scudder.

BIBLIOGRAPHICAL RECORD.

Authors and Societies are requested to forward their works to the Editor at the earliest date possible. We ask our readers to inform us of the publication especially of those works which are not generally consulted by entomologists.

B. Pickman Mann.

(Continued from page 128.)

The Cinc. Quart. Journ. Sci., vol. i (continued), contains Nos. 337–339, and vol. ii contains Nos. 340 to 344.

* 337. V. T. CHAMBERS. Prof. Frey, of Zürich, and some American Teneina. p. 193–211.

Criticism of Frey & Boll's * Nordamerikanische Tineen, Stett. Entom. Zeit., 1873, p. 201–224; discussion of the species therein mentioned and described. [See Rec., No. 339.]

* 338. CYRUS THOMAS, Ph.D. From the Introduction to the Synopsis of the Acrididæ of North America. p. 253–269.

Reprint from Thomas' * Syn. Aerid. N. A. (1873), p. 9–25; external and internal structure and terminology of Aerididae; oviposition; stridulation.

* 339. V. T. CHAMBERS. Notes and Errata on a former paper, on Prof. Frey, and some American Teneina. p. 338–340.

Addition to the article recorded above, Rec., No. 337.

* 340. V. T. CHAMBERS. Tineina of the Central United States. p. 97-121.

Describes¹ *Aesyle*, *A. fasci*, *Lithocolletis symphoricarpae*, *L. Mariae*, *L. lysimachiae*, *L. helianthivora*, *L. albanot*, *L. quercib*, *L. fuscocost*, *L. unifasci*, *L. castaneae*, *Lyonetia apicistrig*, *Opostega? quadristrig*, *Phylloconistis populi*, *Ph. iiquidambaris*, *Ph. smilacis*, *Tischeria tinctori*, *T. badii*, *T. quercivora*, *T. fuscomargini*, *T. purinos*, *T. castaneae*, *T. ambrosiae*, *T. heliopsis*, *Oecophora Shaleri*, *Coleophora Shaleri*, *Ornix quercifoli*, *Nepticula castaneafoli*, *N. nigrivertic*, *N. resplendens*, *N. unifasci*, *Bucculatrix ambrosiacfoli*, *B. quinquenot* = 1 n. g., 32 n. spp.; habits; food-plants; notes upon¹ *Lithocolletis ambrosiae*, *L. argentinot*, *L. acerifera*, *Phylloconistis* spp., *Tischeria* spp., *Nepticula fuscotibi* (= *N. ciliaefusc*), *Bucculatrix Packard*.

* 341. V. T. CHAMBERS. Teneina of the United States. p. 226-259.

Recriticism (with modifications) of Frey & Boll's Nordamer. Tin. [See Rec., Nos. 337, 339]; range of variation in "species"; describes¹ *Cosmopteryx pulchrim*, *Glyphipteryx exoptat*, *Lithocolletis Riley*, *Laverna Murtfeldt*, *Gelechia physalivora*, *G. simplici*, *G. inaequipulv*, *G. Marmor*, *G. ambrosiae*, *G. cristata*, *Hyale*, *H. coryli*, *Semele*, *S. cristata*, *Gelechia lacteus-ochr*, *G. maculatus*, *G. thoracestrig*, *G. thoracenigrae*, *G. thoracefasci*, *G. occident*, *G. griseoochr*, *G. ochreostrig*, *G. discostrig*, *G. ocherfusc*, *Tinea Behrens*, *T. niveocapit*, *Gelechia saphirin*, *G. nigr*, *G. triabamacul*, *G. confus*, *G. latifasci*, *G. trifasci*, *G. capiteochr*, *G. palpiline*, *G. milleri*, *G. griseofasci*, *G. palpialb*, *G. concinnus*, *G. discoanul*, *G. obscurooocel*, *Oeseis*, *O. bianul*, *Holcocera triangularis*, *Euplocamus?* *fuscofasci*, *Tinea apicimacul*, *T. unomacul*, = 3 n. gen., 43 n. spp; habits; food-plants; notes upon¹ *Cosmopteryx* spp., *Gelechia* spp., *Endrosis* *fenestr*, *Amadrya effrenat*.

* 342. L. W. CLAYPOLE. Note from Antioch College. p. 285.

Arrival of "Anisopteryx vernata" at Yellow Springs, Ohio.

* 343. V. T. CHAMBERS. Teneina of Colorado. p. 289-305.

Describes¹ *Gelechia* 10-macul, *G. 4-macul*, *G. ribes*, *G. 8-macul*, *G. albimargin*, *Oecophora* 4-macul, *Glyphipteryx montis*, *Coleophora luteocost*, *C. sparsipulv*, *Laverna* alb, *L. albapalp*, *L. griss*, *L. grandis*, *Cosmopteryx montis*, *Gracilaria alnivor*, *G. alnicol*, *G. acerifoli*, *G. thermops*, *G. populi*, *Lithocolletis alnivor*, *Lyonetia alni*, *Eurynome*, *E. lute* = 1 n. g., 22 n. spp., habits; food-plants; notes on *Gelechia gallaesolidaginis?*, *G. rosasuffusella*, *Plutella cruciferarum* ["*cruciferum*?"], *Oecophora boreasella*, *Argyresthia Goedartella* ["*goedastella*?"], *Bedellia somnulentella*, *Ornix pruinosaella* ["*pruinosaella*?"], *Lithocolletis salicifoliella?*, *Phylloconistis* ["*Phyllænistis*"] *populiella*, *Ph. ampelopsiella*.

* 344. A. G. WETHERBY. Descriptions of Lepidopterous Larvæ, with Remarks on Their Habits and Affinities. [etc.]. p. 363-371.

¹ Every specific name ends in *ella*, omitted in the Record to save space.

Describes *Limacodes argentatus*, *L. ? nebulosus*, *L. nondescriptus*, and three unknown species of *Limacodes* = 6 n. spp., from the larva; describes larvæ of *Callochlora chloris*, *Empretia stimulea*; food-plants; transformations.

* 345. **A. R. Grote.** Check List of the Noctuidæ of America, North of Mexico. I. Bombyciae and Noctuelitæ (Nonfasciatae). Buffalo, N. Y. 1875. 8vo. pg. 28, with a photographic plate of ten figures.

Enumerates 790 species of 176 genera, with foot-notes; describes *Mamestra atlantica*, *Heliothis luteitinctus*, *Oxylos* = 1 n. gen., 2 n. spp.—I. On the structural characters of the Noctuæ.—II. On the Geographical Distribution of the Noctuæ.—III. Notes and descriptions.—Describes *Trigonophora V-brunneum*, *Pachypolia acutissima*, *Dryobota stigmata*, *Hadena interna*, *H. cuculliformis*, *Cucullia lactifica* [Lintner], *Agrotis feniseca* Harvey], *A. carissima* [Harv.], Metalepsis, Spragueia = 2 n. gen., 8 n. spp.; notes on *Hadena uncocisconensis*, *Charadra decora*, *Exyra*; generic index; figures of *Apatela funeralis*, *A. lithospila*, *Lithophane Thaxteri*, *Acerra normalis*, *Homohadena badistriga*, *Batrressia conchiformis*, *Agrotis pressa*, *Pachypolia atricornis*, *P. acutissima*, *Cucullia serraticornis*.

* 346. **The Entom. Monthl. Mag.** [see Rec., Nos 80–84], vol. xi, contains the following, and Nos. 347 to 361.

a. Notice of *Psyche*, No. 1, p. 44–45; of Edwards' The Butterflies of North America, ser. 2, part i (1874), p. 70; of Packard's On the Transformation of the Common House Fly [etc., see Rec., No. 6], p. 93. b. European Conifers, limes, etc., at Philadelphia, killed by larvæ of native insects, and native trees spared (by G. H. Horn), p. 69. c. Remarks on *Pronuba yuccasella* (by J. O. Westwood), p. 94. d. Remarks on habits and habitats of *Doryphora 10-lineata*, and the probability of its being imported into Europe (by R. McLachlan, H. W. Bates, S. Stevens, J. J. Weir), p. 282.

* 347. **H. W. BATES.** Notes on Cicindelidæ and Carabidæ, and Descriptions of New Species (No. 17). p. 22–28.

Describes 14 (*Pachyteles fuliginellus* from Nicaragua = 1 N. A.) new species Carabidae.

* 348. **J. O. WESTWOOD.** Illustrations of Insect Monstrosities. No. 1.—On a Monstrous Stag Beetle (*Lucanus Elaphus*). p. 32–35, fig.

Remarks on the classification of monstrosities, with citation of authorities; definition of varieties, hybrids, and monsters by distortion, defect, excess, coalescence, fissure and arrest; figure and description of a gynandromorphous *L. Elaphus*.

* 349. **HERBERT DRUCE.** Descriptions of three New Butterflies from Costa Rica. p. 36–37.

Describes *Papilio Sudgattes*, *Eresia Coela*, *Mesosemia Ceropia*.

* 350. J. O. WESTWOOD. Description of a New Species of *Cremastocheilus* from California. p. 55.

Describes *Cremastocheilus crassipes* n. sp.

* 351. W. C. HEWITSON. Descriptions of New Species of Butterflies. p. 56.

Describes 3 (*Eresia Eutropia* from Panama = 1 N. A.) n. spp.

* 352. R. McLACHLAN. Note on some Odonata (Dragonflies) from the Sandwich Islands, &c. p. 92.

Notes on habitats and habits of *Anax Junius*, *Pantala flavescens*, *P. hymenaea*, *Tramea lacerata*, *Libellula quadrimaculata*.

* 353. D. SHARP. On a New Family of European Aquatic Coleoptera. p. 101-104.

Reprints and amends LeConte's description of *Hydroseapha* and of *H. natans* [see Rec., No. 321]; describes a Spanish congener (*H. Crotchii*), and remarks on the affinities of the Hydroscaphidae.

* 354. W. C. HEWITSON. Descriptions of New Species of Lycenidae from South America. p. 104-107.

Describes 8 (*Thecla Sodecia*, *Th. Chonida*, *Th. Critola*, *Th. Mathewi*, from Mexico, *Th. Cyphara* from Panama = 5 N. A.) n. spp.

* 355. D. SHARP. Description of three New Species of *Trigonurus*. p. 204-206.

Describes *Trigonurus rugosus*, *T. Edwardsi*, *T. Lecontus*, from California.

* 356. D. SHARP. On the synonymy of *Pleocoma* staff, Schaufuss.

Reasons given for differing from the conclusions arrived at respecting the "invalidity of improper names", in the article cited Rec., No. 323.

* 357. BARON E. DE SELYS-LONGCHAMPS. Notes on Odonata from Newfoundland, collected in 1874 by Mr. John Milne. p. 241-243.

Describes *Aeschna hudsonica*, *Acnallagma boreale* = 2 n. spp.; describes *Epitheca cingulata* ♂; notes on five other species. Explanatory note by R. McLachlan.

* 358. H. W. BATES. On a Collection of Butterflies made by Mr. John Milne in Newfoundland. p. 244-246.

Notes upon the 16 species thus far known from Newfoundland.

* 359. D. SHARP. On three New Species of Hydrophilidae. p. 247-250.

Notes on the characters and affinities of *Sepidulum*; on the modifications of structure of the ventral segments in Hydrophilidae for functional purposes; describes 3 (*S. trogooides* from Mexico? = 1 N. A.) new species of *Sepidulum*.

* 360. GEO. NORMAN. Captures of Noctuidæ at St. Catharines in the Province of Ontario, Canada West. p. 258-262.

List of 6 Rhopalocera, 4 Saturnidae, 3 Sphingidae, about 174 Noctuae collected, with notes on abundance, dates, food-plants, baits.

* 361. V. T. CHAMBERS. On some European 'Micros' away from home. p. 279-280.

Notes on a few Tineina common to Europe and N. A.; especially on a variety of *Gelechia Hermannella*.

The *Entomologische Zeitung herausgegeben von dem entomologischen Vereine zu Stettin*, Jahrg. xxxv (1874), contains the following, and Nos. 362 to 367.

* 362. H. B. MÖSCHLER. Illustrations of the Zygaenidae and Bombycidae of North America, by Richard H. Stretch [etc.]. p. 150-152.

Notice of the first 6 parts [see Rec., No. 42]; comparison of the North American and European faunæ.

* 363. H. B. MÖSCHLER. Beitrag zum Schmetterlings-Fauna von Labrador. p. 153-166.

Describes *Agrotis Erdmanni*, *Cidaria suspectata*, *C. algidata*, *Botys hyperborealis*, *Tortrix arcticana*, *Grapholitha tarandana* = 6 n. spp.; rede-scribes *Lycaena Scudlerii*, *Argynnis Atlantis*; notes on *Pieris frigida* = *P. Napi*, *Deilephila chamaenerii* = *D. Galii*, *Arctia speciosa*, *Epialus hyperbo-reus*, *Agrotis Westermannii*, *Agrotis comparata* = *A. imperita*, *Plusia Hoch-enwarthi*, *P. divergens*, *Anarta Zetterstedtii*, *Lygris destinata* (6 varieties), *Cularia dilutata*, *Penthina roseomaculana*.

* 364. —— BLAUEL. *Saturnia Cecropia*. p. 222-223.

Peculiarities of larvæ raised from eggs, and of their cocoons.

* 365. H. B. MÖSCHLER. Exotisches. p. 303-313.

Bibliographic review resp. *Philampelus vilis* and *Ph. Linnei*; notice of Strecker's Lepidoptera [etc., see Rec., No. 79].

* 366. H. B. MÖSCHLER. List of the Noctuidæ of North America by Aug. R. Grote [etc.]. p. 313-317.

Notice of Grote's List [see Rec., No. 203]; list of Hübnerian generic names substituted for later names; comparison of the number of North American and European species respectively in several genera; species common to Europe and North America; notes on Labrador species.

* 367. PROF. P. C. ZELLER. The Butterflies of North by America, William H. Edwards [etc.]. p. 430-443.

Notice and critical review of the work cited; treats of *Papilio Ajax*, *Parnassius* spp., *Neophasia Menapia*, *Picris* spp., *Anthocharis* spp., *Colias* spp., *Argynnis* spp., *Grauta* spp., *Limenitis* spp., *Apatura Alicia*, *Paphia Glycerium*, *Thecla* spp., *Lycaena* spp.